

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

UTILITY
PATENT APPLICATION
TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.

H22-1A

First Inventor

J. PAUL HATFIELD

Title

BACKFLOW ATTACHMENT

Express Mail Label No.

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO:

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

U.S.P.

6668

1077891



- Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
- Applicant claims small entity status.
See 37 CFR 1.27.
- Specification [Total Pages 7]
(preferred arrangement set forth below)
 - Descriptive title of the invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
- Drawing(s) (35 U.S.C. 113) [Total Sheets 1]
- Oath or Declaration [Total Sheets 2]
 - Newly executed (original or copy)
 - Copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 18 completed)
 - DELETION OF INVENTOR(S)
Signed statement attached deleting Inventor(s)
name in the prior application, see 37 CFR
1.63(d)(2) and 1.33(b).
- Application Data Sheet. See 37 CFR 1.76

7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
 - a. Computer Readable Form (CRF)
 - b. Specification Sequence Listing on:
 - i. CD-ROM or CD-R (2 copies); or
 - ii. Paper
 - c. Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. Assignment Papers (cover sheet & document(s))
10. 37 CFR 3.73(b) Statement Power of Attorney
(when there is an assignee)
11. English Translation Document (if applicable)
12. Information Disclosure Statement (IDS)/PTO-1449 Copies of IDS Citations
13. Preliminary Amendment
14. Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
15. Certified Copy of Priority Document(s)
(if foreign priority is claimed)
16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. Other:

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:

 Continuation Divisional Continuation-in-part (CIP) of prior application No.:Prior application Information: Examiner _____ Art Unit: _____
For CONTINUATION OR DIVISIONAL APPS only; The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference.
The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

 Customer Number: 26 908 OR Correspondence address below

Name			
Address			
City	State	Zip Code	
Country	Telephone	Fax	

Name (Print/Type)	<u>ERIC P. SCHELLIN</u>	Registration No. (Attorney/Agent)	<u>18489</u>
Signature	<u>Eric P. Schellin</u>	Date	<u>2/26/04</u>

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL for FY 2004		Complete if Known	
		Application Number	
		Filing Date	
		First Named Inventor	J PAUL HATFIELD
		Examiner Name	
		Art Unit	
TOTAL AMOUNT OF PAYMENT (\$)		Attorney Docket No. H22-1A	

METHOD OF PAYMENT (check all that apply)		FEE CALCULATION (continued)																																																																																																																									
<input checked="" type="checkbox"/> Check <input type="checkbox"/> Credit card <input type="checkbox"/> Money Order <input type="checkbox"/> Other <input type="checkbox"/> None <input type="checkbox"/> Deposit Account: Deposit Account Number 19-0340 Deposit Account Name Eric P. Schellin		3. ADDITIONAL FEES <table border="1"> <thead> <tr> <th>Large Entity</th> <th>Small Entity</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>Fee Code (\$)</td> <td>Fee Code (\$)</td> <td>Fee Description</td> <td></td> </tr> <tr> <td>1051 130</td> <td>2051 65</td> <td>Surcharge - late filing fee or oath</td> <td></td> </tr> <tr> <td>1052 50</td> <td>2052 25</td> <td>Surcharge - late provisional filing fee or cover sheet</td> <td></td> </tr> <tr> <td>1053 130</td> <td>1053 130</td> <td>Non-English specification</td> <td></td> </tr> <tr> <td>1812 2,520</td> <td>1812 2,520</td> <td>For filing a request for ex parte reexamination</td> <td></td> </tr> <tr> <td>1804 920*</td> <td>1804 920*</td> <td>Requesting publication of SIR prior to Examiner action</td> <td></td> </tr> <tr> <td>1805 1,840*</td> <td>1805 1,840*</td> <td>Requesting publication of SIR after Examiner action</td> <td></td> </tr> <tr> <td>1251 110</td> <td>2251 55</td> <td>Extension for reply within first month</td> <td></td> </tr> <tr> <td>1252 420</td> <td>2252 210</td> <td>Extension for reply within second month</td> <td></td> </tr> <tr> <td>1253 950</td> <td>2253 475</td> <td>Extension for reply within third month</td> <td></td> </tr> <tr> <td>1254 1,480</td> <td>2254 740</td> <td>Extension for reply within fourth month</td> <td></td> </tr> <tr> <td>1255 2,010</td> <td>2255 1,005</td> <td>Extension for reply within fifth month</td> <td></td> </tr> <tr> <td>1401 330</td> <td>2401 165</td> <td>Notice of Appeal</td> <td></td> </tr> <tr> <td>1402 330</td> <td>2402 165</td> <td>Filing a brief in support of an appeal</td> <td></td> </tr> <tr> <td>1403 290</td> <td>2403 145</td> <td>Request for oral hearing</td> <td></td> </tr> <tr> <td>1451 1,510</td> <td>1451 1,510</td> <td>Petition to institute a public use proceeding</td> <td></td> </tr> <tr> <td>1452 110</td> <td>2452 55</td> <td>Petition to revive - unavoidable</td> <td></td> </tr> <tr> <td>1453 1,330</td> <td>2453 665</td> <td>Petition to revive - unintentional</td> <td></td> </tr> <tr> <td>1501 1,330</td> <td>2501 665</td> <td>Utility issue fee (or reissue)</td> <td></td> </tr> <tr> <td>1502 480</td> <td>2502 240</td> <td>Design issue fee</td> <td></td> </tr> <tr> <td>1503 640</td> <td>2503 320</td> <td>Plant issue fee</td> <td></td> </tr> <tr> <td>1460 130</td> <td>1460 130</td> <td>Petitions to the Commissioner</td> <td></td> </tr> <tr> <td>1807 50</td> <td>1807 50</td> <td>Processing fee under 37 CFR 1.17(q)</td> <td></td> </tr> <tr> <td>1806 180</td> <td>1806 180</td> <td>Submission of Information Disclosure Stmt</td> <td></td> </tr> <tr> <td>8021 40</td> <td>8021 40</td> <td>Recording each patent assignment per property (times number of properties)</td> <td></td> </tr> <tr> <td>1809 770</td> <td>2809 385</td> <td>Filing a submission after final rejection (37 CFR 1.129(a))</td> <td></td> </tr> <tr> <td>1810 770</td> <td>2810 385</td> <td>For each additional invention to be examined (37 CFR 1.129(b))</td> <td></td> </tr> <tr> <td>1801 770</td> <td>2801 385</td> <td>Request for Continued Examination (RCE)</td> <td></td> </tr> <tr> <td>1802 900</td> <td>1802 900</td> <td>Request for expedited examination of a design application</td> <td></td> </tr> </tbody> </table>		Large Entity	Small Entity	Fee Description	Fee Paid	Fee Code (\$)	Fee Code (\$)	Fee Description		1051 130	2051 65	Surcharge - late filing fee or oath		1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet		1053 130	1053 130	Non-English specification		1812 2,520	1812 2,520	For filing a request for ex parte reexamination		1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action		1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action		1251 110	2251 55	Extension for reply within first month		1252 420	2252 210	Extension for reply within second month		1253 950	2253 475	Extension for reply within third month		1254 1,480	2254 740	Extension for reply within fourth month		1255 2,010	2255 1,005	Extension for reply within fifth month		1401 330	2401 165	Notice of Appeal		1402 330	2402 165	Filing a brief in support of an appeal		1403 290	2403 145	Request for oral hearing		1451 1,510	1451 1,510	Petition to institute a public use proceeding		1452 110	2452 55	Petition to revive - unavoidable		1453 1,330	2453 665	Petition to revive - unintentional		1501 1,330	2501 665	Utility issue fee (or reissue)		1502 480	2502 240	Design issue fee		1503 640	2503 320	Plant issue fee		1460 130	1460 130	Petitions to the Commissioner		1807 50	1807 50	Processing fee under 37 CFR 1.17(q)		1806 180	1806 180	Submission of Information Disclosure Stmt		8021 40	8021 40	Recording each patent assignment per property (times number of properties)		1809 770	2809 385	Filing a submission after final rejection (37 CFR 1.129(a))		1810 770	2810 385	For each additional invention to be examined (37 CFR 1.129(b))		1801 770	2801 385	Request for Continued Examination (RCE)		1802 900	1802 900	Request for expedited examination of a design application	
Large Entity	Small Entity	Fee Description	Fee Paid																																																																																																																								
Fee Code (\$)	Fee Code (\$)	Fee Description																																																																																																																									
1051 130	2051 65	Surcharge - late filing fee or oath																																																																																																																									
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet																																																																																																																									
1053 130	1053 130	Non-English specification																																																																																																																									
1812 2,520	1812 2,520	For filing a request for ex parte reexamination																																																																																																																									
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action																																																																																																																									
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action																																																																																																																									
1251 110	2251 55	Extension for reply within first month																																																																																																																									
1252 420	2252 210	Extension for reply within second month																																																																																																																									
1253 950	2253 475	Extension for reply within third month																																																																																																																									
1254 1,480	2254 740	Extension for reply within fourth month																																																																																																																									
1255 2,010	2255 1,005	Extension for reply within fifth month																																																																																																																									
1401 330	2401 165	Notice of Appeal																																																																																																																									
1402 330	2402 165	Filing a brief in support of an appeal																																																																																																																									
1403 290	2403 145	Request for oral hearing																																																																																																																									
1451 1,510	1451 1,510	Petition to institute a public use proceeding																																																																																																																									
1452 110	2452 55	Petition to revive - unavoidable																																																																																																																									
1453 1,330	2453 665	Petition to revive - unintentional																																																																																																																									
1501 1,330	2501 665	Utility issue fee (or reissue)																																																																																																																									
1502 480	2502 240	Design issue fee																																																																																																																									
1503 640	2503 320	Plant issue fee																																																																																																																									
1460 130	1460 130	Petitions to the Commissioner																																																																																																																									
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)																																																																																																																									
1806 180	1806 180	Submission of Information Disclosure Stmt																																																																																																																									
8021 40	8021 40	Recording each patent assignment per property (times number of properties)																																																																																																																									
1809 770	2809 385	Filing a submission after final rejection (37 CFR 1.129(a))																																																																																																																									
1810 770	2810 385	For each additional invention to be examined (37 CFR 1.129(b))																																																																																																																									
1801 770	2801 385	Request for Continued Examination (RCE)																																																																																																																									
1802 900	1802 900	Request for expedited examination of a design application																																																																																																																									
1. BASIC FILING FEE <table border="1"> <thead> <tr> <th>Large Entity</th> <th>Small Entity</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>Fee Code (\$)</td> <td>Fee Code (\$)</td> <td>Fee Description</td> <td>Fee Paid</td> </tr> <tr> <td>1001 770</td> <td>2001 385</td> <td>Utility filing fee</td> <td>385</td> </tr> <tr> <td>1002 340</td> <td>2002 170</td> <td>Design filing fee</td> <td></td> </tr> <tr> <td>1003 530</td> <td>2003 265</td> <td>Plant filing fee</td> <td></td> </tr> <tr> <td>1004 770</td> <td>2004 385</td> <td>Reissue filing fee</td> <td></td> </tr> <tr> <td>1005 160</td> <td>2005 80</td> <td>Provisional filing fee</td> <td></td> </tr> </tbody> </table>		Large Entity	Small Entity	Fee Description	Fee Paid	Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid	1001 770	2001 385	Utility filing fee	385	1002 340	2002 170	Design filing fee		1003 530	2003 265	Plant filing fee		1004 770	2004 385	Reissue filing fee		1005 160	2005 80	Provisional filing fee		2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE <table border="1"> <thead> <tr> <th>Total Claims</th> <th>Independent Claims</th> <th>Multiple Dependent</th> <th>Extra Claims</th> <th>Fee from below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td>-20**</td> <td>=</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>- 3**</td> <td>=</td> <td></td> </tr> </tbody> </table>		Total Claims	Independent Claims	Multiple Dependent	Extra Claims	Fee from below	Fee Paid				-20**	=					- 3**	=																																																																											
Large Entity	Small Entity	Fee Description	Fee Paid																																																																																																																								
Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid																																																																																																																								
1001 770	2001 385	Utility filing fee	385																																																																																																																								
1002 340	2002 170	Design filing fee																																																																																																																									
1003 530	2003 265	Plant filing fee																																																																																																																									
1004 770	2004 385	Reissue filing fee																																																																																																																									
1005 160	2005 80	Provisional filing fee																																																																																																																									
Total Claims	Independent Claims	Multiple Dependent	Extra Claims	Fee from below	Fee Paid																																																																																																																						
			-20**	=																																																																																																																							
			- 3**	=																																																																																																																							
3. ADDITIONAL FEES <table border="1"> <thead> <tr> <th>Large Entity</th> <th>Small Entity</th> <th>Fee Description</th> </tr> </thead> <tbody> <tr> <td>Fee Code (\$)</td> <td>Fee Code (\$)</td> <td>Fee Description</td> </tr> <tr> <td>1202 18</td> <td>2202 9</td> <td>Claims in excess of 20</td> </tr> <tr> <td>1201 86</td> <td>2201 43</td> <td>Independent claims in excess of 3</td> </tr> <tr> <td>1203 290</td> <td>2203 145</td> <td>Multiple dependent claim, if not paid</td> </tr> <tr> <td>1204 86</td> <td>2204 43</td> <td>** Reissue independent claims over original patent</td> </tr> <tr> <td>1205 18</td> <td>2205 9</td> <td>** Reissue claims in excess of 20 and over original patent</td> </tr> </tbody> </table>		Large Entity	Small Entity	Fee Description	Fee Code (\$)	Fee Code (\$)	Fee Description	1202 18	2202 9	Claims in excess of 20	1201 86	2201 43	Independent claims in excess of 3	1203 290	2203 145	Multiple dependent claim, if not paid	1204 86	2204 43	** Reissue independent claims over original patent	1205 18	2205 9	** Reissue claims in excess of 20 and over original patent	SUBTOTAL (1) (\$) 385																																																																																																				
Large Entity	Small Entity	Fee Description																																																																																																																									
Fee Code (\$)	Fee Code (\$)	Fee Description																																																																																																																									
1202 18	2202 9	Claims in excess of 20																																																																																																																									
1201 86	2201 43	Independent claims in excess of 3																																																																																																																									
1203 290	2203 145	Multiple dependent claim, if not paid																																																																																																																									
1204 86	2204 43	** Reissue independent claims over original patent																																																																																																																									
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent																																																																																																																									
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE <table border="1"> <thead> <tr> <th>Total Claims</th> <th>Independent Claims</th> <th>Multiple Dependent</th> <th>Extra Claims</th> <th>Fee from below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td>-20**</td> <td>=</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>- 3**</td> <td>=</td> <td></td> </tr> </tbody> </table>		Total Claims	Independent Claims	Multiple Dependent	Extra Claims	Fee from below	Fee Paid				-20**	=					- 3**	=		SUBTOTAL (2) (\$)																																																																																																							
Total Claims	Independent Claims	Multiple Dependent	Extra Claims	Fee from below	Fee Paid																																																																																																																						
			-20**	=																																																																																																																							
			- 3**	=																																																																																																																							
*or number previously paid, if greater; For Reissues, see above		Other fee (specify) _____																																																																																																																									
*Reduced by Basic Filing Fee Paid		SUBTOTAL (3) (\$)																																																																																																																									

SUBMITTED BY		(Complete if applicable)	
Name (Print/Type)	ERIC P. SCHELLIN	Registration No. (Attorney/Agent)	18449
Signature	Eric P. Schellin	Telephone	703.356.5018
		Date	2/26/04

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.